

Title (en)  
Power unit for a work spindle

Title (de)  
Antriebseinrichtung einer Arbeitsspindel

Title (fr)  
Mécanisme d'entraînement d'une broche d'usinage

Publication  
**EP 0709162 A1 19960501 (FR)**

Application  
**EP 95402393 A 19951025**

Priority  
FR 9413088 A 19941027

Abstract (en)  
The spindle (2), which is both rotated and advanced axially, consists of a fixed assembly (1) with a drive to advance the spindle, and a mobile assembly (3) with a drive to rotate it, capable of being actuated by the advance mechanism. The advancing movement of the spindle is controlled by a motor (4) mounted on the fixed assembly's support (5) and able to rotate in either direction on an endless screw (6) turning in two bearings (7,8) on the support. The rotary motion is provided by a motor (14) mounted on a plate (15) on the mobile assembly, which also carried the spindle itself. The plate (15) is mounted on the endless screw by a recirculating ball nut (16) set in a recess in the support, with the coupling between the motor and spindle provided by a toothed belt (19).

Abstract (fr)  
Mécanisme d'entraînement d'une broche (2) d'usinage sur laquelle est rapporté un outil actionné, d'une part, en rotation, et, d'autre part, selon un mouvement d'avance axiale. Selon l'invention, ledit mécanisme d'entraînement comporte : un ensemble fixe (1) muni de moyens de commande d'avance axiale de la broche (2), un ensemble mobile (3) muni de moyens d'entraînement en rotation de la broche (2), et apte à être actionné par lesdits moyens de commande d'avance axiale. Application aux outils d'usinage. <IMAGE>

IPC 1-7  
**B23Q 1/70**

IPC 8 full level  
**B23Q 1/48** (2006.01); **B23Q 1/70** (2006.01)

CPC (source: EP)  
**B23Q 1/4828** (2013.01); **B23Q 1/70** (2013.01)

Citation (search report)  
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• [A] CH 679289 A5 19920131 - SUHNER INTERTRADE AG  
• [A] EP 0563862 A1 19931006 - FEDELI GIANCARLO [IT]  
• [A] CH 573796 A5 19760331 - SCHLEITH & CO

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